

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 00786/282002		SERIAL NO.		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))					APPLICANT Jack R. Wands et al.			FILING DATE August 11, 1999 GROUP	
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
AA									
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION									
	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO			
AB									
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)									
WV	AC	Babinet, et al., "Specific Expression of Hepatitis B Surface Antigen (HBsAg) in Transgenic Mice"							
		Science, 230:1160-1163 (1985)							
WV	AD	Benoist et al., "In vivo sequence requirements of the SV40 early promoter region" Nature, 290:304-310							
		(1981)							
WV	AE	Birnbaum et al., "Hepatitis B Virus Nucleocapsid Assembly: Primary Structure Requirements in the Core							
		Protein", J. Virol. 64:3319-3330 (1990)							
WV	AF	Burk et al., "Tissue Preferential Expression of the Hepatitis B Virus (HBV) Surface Antigen Gene in Two							
		Lines of HBV Transgenic Mice", J. Virol. 62:649-654 (1988)							
WV	AG	Blum et al., "Naturally Occurring Missense Mutation in the Polymerase Gene Terminating Hepatitis B Virus							
		Replication", Journal of Virology 65:1836-1842 (1991)							
WV	AH	Chisari, "Analysis of Hepadnavirus Gene Expression, Biology, and Pathogenesis in the Transgenic Mouse",							
		Current Topics in Microbiology and Immunology, 168:85-101 (1991)							
WV	AI	Chisari, F.V. et al., "A Transgenic Mouse Model of the Chronic Hepatitis B Surface Antigen Carrier State"							
		Science, 230:1157-1160 (1985)							
WV	AJ	Chomczynski et al., "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform							
		Extraction", Anal. Biochem. 162:156-159 (1987)							
WV	AK	DeBernardi et al., "Inhibition of cAMP accumulation by intracellular calcium mobilization in C6-2B cells							
		stably transfected with substance K receptor cDNA", Proc. Natl. Acad. Sci. USA 88:9257-9261, (1991)							
WV	AL	Di Bisceglie et al., "Treatment of Chronic Type B Hepatitis", Cancer Detection and Prevention,							
		14:291-293 (1989)							
WV	AM	Enders et al., "5'-Terminal Sequences Influence the Segregation of Ground Squirrel Hepatitis Virus RNAs							
		into Polyribosomes and Viral Core Particles" Journal of Virology, 61:35-41 (1987)							
WV	AN	Ganem et al., "The Molecular Biology of the Hepatitis B Viruses," Ann Rev. Biochem, 56:651-693 (1987)							
EXAMINER WVZL				DATE CONSIDERED 9/12/03					
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
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	BB						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
w	BC	Graham et al., "Characteristics of a Human Cell Line Transformed by DNA from Human Adenovirus Type 5",					
		J. Gen. Virol. 36:59-72 (1977)					
w	BD	Hamer, et al., "Regulation In Vivo of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a					
		Mouse Metallothionein Gene in SV40 Vectors", J. Mol. Appl. Gen 1:273-288 (1982)					
w	BE	Hirsch et al., "Polymerase gene products of hepatitis B viruses are required for genomic RNA packaging as					
		well as for reverse transcription" Nature, 344:552-555 (1990)					
w	BF	Jilbert et al. "Rapid Resolution of Duck Hepatitis B Virus Infections Occurs after Massive Hepatocellular					
		Involvement", J. Virol., 66:1377-1388 (1992)					
w	BG	Junker-Niepmann et al., "A short cis-acting sequence is required for hepatitis B virus pregenome					
		encapsidation and sufficient for packaging of foreign RNA", EMBO 9:3389-3396 (1990)					
w	BH	Kasahara et al., "Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptors Interactions",					
		Science, 266:1373-1376 (1994)					
w	BI	Kotin et al., "Site-specific integration by adeno-associated virus", Proc. Natl. Acad. Sci. USA					
		87:2211-2215 (1990)					
w	BJ	Lu et al., "Gene Transfer into Hepatocytes using a defective herpes simplex viral vector" Abstract from the					
		Meeting on Gene Therapy, Sept. 22-26, 1992, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York					
w	BK	Marion et al., "A virus in Beechey ground squirrels that is related to hepatitis B virus of humans",					
		Proc. Natl. Acad. Sci. USA, 77:2941-2945 (1980)					
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CA							
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CB							
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
M	CC	Mason et al., "Experimental Systems for the Study of Hepadnavirus and Hepatitis Delta Virus Infections", Hepatology, 9:635-645 (1989)					
		Mason et al., "Virus of Pekin Ducks with Structural and Biological Relatedness to Human Hepatitis B Virus", Journal of Virology, 36:829-836 (1980)					
M	CD	Maynard et al., "Global Control of Hepatitis B Through Vaccination: Role of Hepatitis B Vaccine in the Expanded Programme on Immunization", Rev. Infect. Dis., 11(S3) 574-578 (1989)					
		Melegari et al., "Properties of Hepatitis B Virus Pre-S1 Deletion Mutants", Virology 199:292-300 (1994)					
M	CG	Morgenstern et al., "Advanced mammalian gene transfer: high titre retroviral vectors with multiple drug selection markers and a complementary helper-free packaging cell line", Nucl. Acid. Res., 18:3587-96 (1990)					
		Morsy et al., "Efficient Adenoviral Gene Transduction In Human and Mouse Hepatocytes <i>In Vitro</i> and In Mouse Liver <i>In Vivo</i> " J. Cell Biochem., Supp. 17E, 1993					
M	CI	Nassal et al., "The Arginine-Rich Domain of the Hepatitis B Virus Core Protein Is Required for Pregenome Encapsidation and Productive Viral Positive-Strand DNA Synthesis but Not for Virus Assembly", Journal of Virology, 66:4107-4116 (1992)					
		Pollack et al., "An RNA Stem-Loop Structure Directs Hepatitis B Virus Genomic RNA Encapsidation", J. Virol. 67, 3254-3263 (1993)					
M	CK	Pugh et al., "Duck Hepatitis B Virus (DHBV) Particles Produced by Transient Expression of DHBV DNA in a Human Hepatoma Cell Line Are Infectious <i>In Vitro</i> ", J. Virol., 62, 3513-3516 (1998)					
EXAMINER MVL				DATE CONSIDERED 1/12/03			
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DA							
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DB							
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
M	DC	Rosenberg et al., "Gene Transfer Into Humans -- Immunotherapy of Patients with Advanced Melanoma, Using Tumor-Infiltrating Lymphocytes Modified by Retroviral Gene Transduction", N.E. J. Med. 323(9):570-578 (1990)					
		Roychoudhury et al., "Pregenomic RNA Encapsidation Analysis of Eleven Missense and Nonsense Polymerase Mutants of Human Hepatitis B Virus", J. Virol. 65, 3617-3624 (1991)					
M	DD	Schodel et al., Molecular Biology of hepatitis B virus, CRC press, Boca Raton, p. 53-80 (1991)					
		Seeger et al., "Expression of Infection Woodchuck Hepatitis Virus in Murine and Avian Fibroblasts" Journal of Virology, 63:4665-4669 (1989)					
M	DE	Summers et al., "A virus similar to human hepatitis B virus associated with hepatitis and hepatoma in woodchucks", Proc. Natl. Acad. Sci. USA, 75:4533-4537 (1978)					
		Wang et al., "Structure, sequence and expression of the hepatitis delta (δ) viral genome", Nature, 323:508-514 (1986)					
M	DH	Wu et al., "Evidence that Less-than-Full-Length pol Gene Products Are Functional in Hepadnavirus DNA Synthesis", Journal of Virology, 65:2155-2163 (1991)					
		Yu et al., "A Domain of the Hepadnavirus Capsid Protein Is Specifically Required for DNA Maturation and Virus Assembly", J. Virol., 65:2511-2517 (1991)					
M	DI	Xian-Jun et al., "Tissue-Specific Activity of Heterologous Viral Promoters in Primary Rat Hepatocytes and Hep G2 Cells" Hepatology, 10:(5)781-787, (1989)					
EXAMINER <i>MVJ</i>				DATE CONSIDERED 9/12/00			
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 00786-282003	Application No. 09/812,862
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Jack R. Wands <i>et al.</i>	
		Filing Date March 20, 2001	Group Art Unit 1633

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U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
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	AG						
	AH						
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	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

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							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
<i>WV</i>	AQ	Beams <i>et al.</i> , "Carboxy-terminal truncations of the HBV core protein affect capsid formation and the apparent size of encapsidated HBV RNA" <i>Virology</i> 194(2)597-607, 1993.
	AR	
	AS	
	AT	

Examiner Signature

Date Considered

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